

C3.186: P-26/42 ✓



## CURRENT POPULATION REPORTS

## FEDERAL-STATE COOPERATIVE PROGRAM FOR

## Population Estimates

U. S. DEPARTMENT OF COMMERCE • Social and Economic Statistics Administration • BUREAU OF THE CENSUS

Series P-26, No. 72

Issued July 1974

ESTIMATES OF THE POPULATION OF IOWA COUNTIES  
AND METROPOLITAN AREAS: JULY 1, 1972 AND 1973

This report presents population estimates for July 1, 1972 and provisional estimates for July 1, 1973, for counties and metropolitan areas prepared under the auspices of the Federal-State Cooperative Program for Local Population Estimates. The objective of this program is the development and publication of State-prepared estimates of the population of counties using uniform procedures largely standardized for data input and methodology. The methods used have been mutually agreed upon by the individual States and the Bureau of the Census on the basis of a test of methods against the 1970 census. For a more detailed description of the program and an analysis of the test results, see Current Population Reports, Series P-26, No. 21, "Federal-State Cooperative Program for Local Population Estimates: Test Results--April 1, 1970," April 1973.

County estimates for July 1, 1971 and provisional estimates for July 1, 1972 were published earlier in Current Population Reports, Series P-26, No. 31. The provisional estimates in that report are superseded by the numbers published here. Because of changes in input data for some counties since that report, estimates shown here may not always be completely comparable with those for the earlier years.

The estimates shown here for the 99 counties in the State were prepared by the Records and Statistics Division of the Iowa State Department of Health in cooperation with the Bureau of the Census. This agency was designated by the

Governor to work with the Bureau of the Census in implementing and carrying out the Federal-State Cooperative Program.

The estimates shown for July 1, 1972 are based on an average of the following methods, adjusted to agree with the July 1, 1972 State estimates published in Series P-25, No. 508.

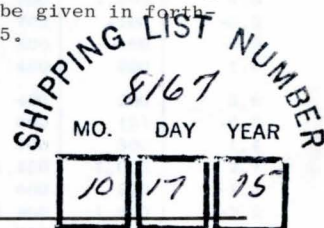
1. The Regression (ratio-correlation) method. In the Regression method a multiple regression equation is used to relate changes in a number of different data series to change in population distribution.<sup>1</sup> The series of data used in the Regression method for Iowa are: automobile registrations ( $X_1$ ), two-year averages of resident births ( $X_2$ ), two-year averages of resident deaths ( $X_3$ ), and elementary school enrollment in grades 1 through 8 plus elementary special and elementary ungraded ( $X_4$ ). The prediction equation for Iowa for the 1970's is given by

$$\hat{Y} = 0.0014 + 0.8577X_1 + 0.0346X_2 + 0.0470X_3 + 0.0586X_4$$

<sup>1</sup>Descriptions of methodologies are given in Current Population Reports, Series P-25, No. 427 and 460. Modifications made to the methodologies for the current series will be given in forthcoming reports in Series P-25.

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2. Component Method II. This method employs vital statistics to measure natural increase and school enrollment to measure net migration. The estimates made by the Census Bureau's Component Method II are specific to the civilian population under 65. To this population is added an estimate of the resident military population based on station strength statistics and an estimate of the population 65 and over based on Medicare statistics.<sup>1</sup>

3. The Composite method. In this method estimates of various age groups are derived separately and are then summed to secure a total for all ages. Death statistics are used to estimate the population in ages 45 and over, birth statistics are used to estimate the population in ages 18 to 44, and a variation of Component Method II is used to estimate the population in ages under 18. In the case of birth and death statistics, an arithmetic average of two years of data is used for both the base year (1970) and the estimate year (1972). The two-year average is used to smooth out random fluctuations in the data which distort the estimates.<sup>1</sup>

The provisional July 1, 1973 estimates for large metropolitan counties were developed by adding the average change between 1972 and 1973 estimates based on Component Method II and the Housing Unit method to the 1972 estimates. In the Housing Unit method the estimates of population are based on estimates of the housing inventory. Changes in the housing inventory are derived from data on building permits issued and demolition records, or on data on electric meter connections. The provisional July 1, 1973

estimates for the remaining counties were developed by adding the change between 1972 and 1973 Component Method II estimates to the 1972 estimates. All counties were subsequently adjusted to agree with the provisional July 1, 1973 State estimate published in Current Population Reports, Series P-25, No. 508.

Table 2 of this report presents estimates of the population of metropolitan areas and metropolitan counties in the State. The titles and definitions of the standard metropolitan statistical areas (SMSA's) are those currently defined by the Office of Management and Budget, Executive Office of the President. Where an SMSA falls in more than one State (indicated in the SMSA title) information on the other State parts of the area can be obtained by referring to the P-26 report for the other States.

Corresponding estimates for other States in the program will be published as they become available. The appendix table shows reports published to date for States in the 1972-73 series, together with those published earlier for 1971 and provisional 1972.

The 1970 census total for the State shown on the table may differ slightly from the sum of the counties because of corrections made subsequent to the release of the official State figure. All county populations for 1970 reflect corrections in the census count published in the bound 1970 census volume for the State.

The estimates presented in the table have been rounded to the nearest hundred without being adjusted to the State total, which was independently rounded to the nearest thousand. Percentages are based on unrounded numbers.

See footnote 1 on page 1.



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**Table 1. ESTIMATES OF THE POPULATION OF IOWA COUNTIES:  
JULY 1, 1972 AND JULY 1, 1973**

(State estimates are shown to the nearest thousand, county estimates to the nearest hundred)

County	July 1, 1973 (provi- sional)	July 1, 1972	April 1, 1970 (census) <sup>1</sup>	Change, 1970 to 1973		Components of change, 1970 to 1973 <sup>2</sup>			
				Number	Percent	Births	Deaths	Net migration	
								Number	Percent
Iowa.....	2,904,000	2,884,000	2,825,041	79,000	2.8	143,000	96,000	32,000	1.1
Adair.....	9,400	9,600	9,487	-100	-1.1	400	400	-100	-0.8
Adams.....	6,300	6,400	6,322	(Z)	-0.4	200	300	(Z)	0.2
Allamakee.....	15,800	15,600	14,968	800	5.5	800	600	700	4.5
Appanoose.....	15,800	15,600	15,007	700	5.0	700	800	900	5.7
Audubon.....	9,500	9,600	9,595	-100	-1.0	300	400	(Z)	-0.3
Benton.....	23,700	23,300	22,885	800	3.6	1,000	800	700	2.9
Black Hawk.....	134,500	134,900	132,916	1,600	1.2	6,800	3,600	-1,600	-1.2
Boone.....	28,200	27,800	26,470	1,700	6.5	1,100	1,100	1,700	6.5
Bremer.....	23,700	23,400	22,737	900	4.1	1,100	700	500	2.4
Buchanan.....	21,800	21,800	21,762	(Z)	(Z)	1,100	700	-400	-1.7
Buena Vista.....	21,400	21,300	20,693	700	3.5	1,000	800	500	2.6
Butler.....	17,700	17,200	16,953	700	4.2	800	700	600	3.3
Calhoun.....	14,400	14,000	14,292	200	1.1	600	600	200	1.2
Carroll.....	23,200	23,100	22,912	300	1.4	1,100	800	(Z)	0.2
Cass.....	17,600	17,100	17,007	600	3.7	700	700	600	3.7
Cedar.....	18,100	18,000	17,655	400	2.3	800	700	300	1.7
Cerro Gordo.....	49,500	49,500	49,223	300	0.6	2,300	1,700	-300	-0.7
Cherokee.....	17,500	17,500	17,269	200	1.3	800	600	(Z)	0.2
Chickasaw.....	15,000	15,000	14,969	100	0.5	800	600	-200	-1.1
Clarke.....	7,900	7,900	7,581	300	4.5	300	400	400	5.0
Clay.....	19,000	18,600	18,464	500	2.8	800	700	300	1.8
Clayton.....	21,700	21,200	20,606	1,100	5.2	1,000	900	900	4.4
Clinton.....	58,900	57,700	56,749	2,100	3.7	3,000	2,000	1,200	2.1
Crawford.....	18,800	18,900	19,116	-300	-1.4	1,000	700	-600	-3.2
Dallas.....	26,600	26,700	26,085	500	1.8	1,300	1,000	100	0.5
Davis.....	8,400	8,400	8,207	200	2.2	400	400	200	2.1
Decatur.....	9,900	9,800	9,737	100	1.5	400	400	200	2.2
Delaware.....	19,200	19,100	18,770	500	2.5	1,000	700	100	0.5
Des Moines.....	45,500	45,900	46,982	-1,400	-3.1	2,200	1,600	-2,000	-4.3
Dickinson.....	13,300	12,900	12,565	700	5.6	600	500	600	4.8
Dubuque.....	94,900	93,500	90,609	4,300	4.8	5,400	2,700	1,700	1.9
Emmet.....	14,600	14,400	14,009	600	4.5	700	500	400	3.0
Fayette.....	27,600	27,200	26,898	700	2.4	1,200	1,000	400	1.6
Floyd.....	20,600	20,500	19,860	700	3.5	900	800	600	2.9
Franklin.....	13,400	13,400	13,255	100	0.8	500	600	100	1.0
Fremont.....	9,800	9,800	9,282	500	5.7	400	500	600	6.2
Greene.....	12,700	12,700	12,716	(Z)	-0.3	600	600	(Z)	-0.3
Grundy.....	14,800	14,300	14,119	700	4.9	600	500	600	4.2
Guthrie.....	12,700	12,900	12,243	400	3.7	500	500	400	3.6
Hamilton.....	17,800	17,900	18,383	-500	-2.9	800	600	-700	-4.0
Hancock.....	14,500	14,000	13,506	1,000	7.2	700	500	800	6.0
Hardin.....	22,400	22,500	22,248	100	0.7	900	900	100	0.4
Harrison.....	17,400	17,200	16,240	1,100	7.0	800	700	1,100	6.6
Henry.....	18,100	18,200	18,114	(Z)	-0.2	800	700	-100	-0.5
Howard.....	11,300	11,300	11,442	-100	-1.2	500	500	-100	-0.9
Humboldt.....	12,800	13,000	12,519	300	2.3	500	400	200	1.6
Ida.....	9,500	9,300	9,283	200	2.4	300	400	200	2.6
Iowa.....	15,600	15,400	15,419	100	0.9	700	600	(Z)	-0.2
Jackson.....	21,500	21,400	20,839	600	3.1	1,100	700	300	1.4
Jasper.....	36,900	35,800	35,425	1,500	4.2	1,700	1,200	1,000	2.7
Jefferson.....	15,800	16,100	15,774	(Z)	-0.1	700	600	-200	-1.3
Johnson.....	73,300	73,400	72,127	1,100	1.6	4,000	1,300	-1,600	-2.2
Jones.....	19,900	19,900	19,868	(Z)	(Z)	1,000	800	-200	-1.0
Keokuk.....	13,900	14,000	13,943	(Z)	-0.2	600	700	100	0.5
Kossuth.....	23,500	23,500	22,937	600	2.5	1,100	700	200	0.9

See footnotes at end of table.



**Table 1. ESTIMATES OF THE POPULATION OF IOWA COUNTIES:  
JULY 1, 1972 AND JULY 1, 1973—Continued**

(State estimates are shown to the nearest thousand, county estimates to the nearest hundred)

County	July 1, 1973 (provi- sional)	July 1, 1972	April 1, 1970 (census) <sup>1</sup>	Change, 1970 to 1973		Components of change, 1970 to 1973 <sup>2</sup>			
				Number	Percent	Births	Deaths	Net migration	
								Number	Percent
Iowa--Continued									
Lee.....	43,500	43,400	42,996	500	1.1	2,100	1,700	100	0.3
Linn.....	167,400	167,200	163,213	4,200	2.6	9,200	4,500	-500	-0.3
Louisa.....	11,700	11,200	10,682	1,000	9.4	500	400	900	8.0
Lucas.....	10,500	10,500	10,163	300	3.0	500	500	300	3.3
Lyon.....	13,600	13,300	13,340	300	2.3	700	400	(Z)	0.2
Madison.....	12,700	12,300	11,558	1,100	9.9	600	500	1,100	9.6
Mahaska.....	22,900	22,700	22,177	700	3.1	1,000	1,000	600	2.8
Marion.....	27,400	27,100	26,352	1,100	4.1	1,200	900	800	3.1
Marshall.....	42,600	42,800	41,076	1,600	3.8	2,200	1,300	700	1.6
Mills.....	12,800	12,700	11,832	1,000	8.4	600	400	800	7.0
Mitchell.....	12,600	12,700	13,108	-500	-3.5	600	500	-500	-4.1
Monona.....	12,400	12,300	12,069	300	2.4	500	600	300	2.7
Monroe.....	9,500	9,500	9,357	100	1.3	400	400	200	2.0
Montgomery.....	13,900	13,600	12,781	1,200	9.1	600	700	1,200	9.5
Muscatine.....	38,900	38,200	37,181	1,700	4.6	2,100	1,300	900	2.4
O'Brien.....	18,100	18,000	17,522	600	3.4	800	700	600	3.2
Osceola.....	8,400	8,500	8,555	-200	-1.9	400	300	-300	-3.3
Page.....	19,600	19,300	18,537	1,000	5.6	800	900	1,100	6.0
Palo Alto.....	13,800	13,900	13,289	500	3.9	600	500	500	3.5
Plymouth.....	24,500	24,500	24,322	100	0.6	1,200	800	-300	-1.1
Pocahontas.....	11,900	12,300	12,793	-800	-6.6	500	500	-900	-7.1
Polk.....	296,200	294,400	286,130	10,100	3.5	16,200	8,600	2,400	0.8
Pottawattamie.....	90,600	89,900	86,991	3,600	4.2	5,100	2,600	1,200	1.4
Poweshiek.....	19,600	19,300	18,803	800	4.1	800	700	700	3.5
Ringgold.....	6,500	6,500	6,373	200	2.7	200	300	200	3.3
Sac.....	15,900	15,500	15,573	400	2.3	600	600	400	2.4
Scott.....	146,900	146,000	142,687	4,200	3.0	8,300	4,200	100	0.1
Shelby.....	16,000	16,000	15,528	500	3.1	700	600	300	2.0
Sioux.....	28,500	28,400	27,996	500	1.7	1,400	800	-200	-0.5
Story.....	66,700	64,900	62,783	3,900	6.3	3,100	1,300	2,100	3.4
Tama.....	20,500	20,300	20,147	400	1.7	900	800	200	1.0
Taylor.....	8,800	8,800	8,790	(Z)	0.4	300	500	200	1.9
Union.....	14,100	13,900	13,557	500	3.7	600	600	500	3.9
Van Buren.....	9,000	8,900	8,643	300	3.8	300	400	400	5.0
Wapello.....	42,900	42,200	42,149	700	1.7	1,900	1,700	500	1.3
Warren.....	30,300	29,300	27,432	2,900	10.6	1,800	700	1,800	6.6
Washington.....	18,900	19,300	18,967	-100	-0.5	900	800	-300	-1.4
Wayne.....	8,500	8,400	8,405	100	1.6	300	500	300	3.5
Webster.....	48,500	48,900	48,391	100	0.2	2,400	1,500	-700	-1.5
Winnebago.....	14,100	13,600	12,990	1,100	8.3	600	500	1,000	7.6
Winneshiiek.....	22,600	22,300	21,758	800	3.7	900	700	500	2.5
Woodbury.....	106,100	105,400	103,052	3,100	3.0	5,700	3,700	1,000	1.0
Worth.....	9,200	9,100	8,984	300	2.8	300	400	300	3.1
Wright.....	17,500	17,100	17,294	200	1.0	700	700	200	1.1

Z Less than 50 or less than 0.05 percent.

<sup>1</sup>Total does not agree with the sum of the counties due to corrections made to the county populations after release of the official State counts.

<sup>2</sup>Births and deaths are based on reported vital statistics from April 1, 1970, to December 31, 1972, with extrapolations to June 30, 1973. Net migration is the difference between net change and natural increase.

**Table 2. ESTIMATES OF THE POPULATION OF METROPOLITAN AREAS AND THEIR COMPONENT COUNTIES: IOWA, JULY 1, 1972 AND 1973**

(SMSA totals rounded independently of county numbers)

Standard metropolitan statistical area and county	July 1, 1973 (provisional)	July 1, 1972	April 1, 1970 (census)	Change, 1970 to 1973		Components of change, 1970 to 1973 <sup>1</sup>			
				Number	Percent	Births	Deaths	Net migration	
								Number	Percent
CEDAR RAPIDS, IOWA...	167,400	167,200	163,213	4,200	2.6	9,200	4,500	-500	-0.3
Linn.....	167,400	167,200	163,213	4,200	2.6	9,200	4,500	-500	-0.3
DAVENPORT-ROCK ISLAND,-MOLINE, IOWA-ILL. (Iowa portion)...	146,900	146,000	142,687	4,200	3.0	8,300	4,200	100	0.1
Scott.....	146,900	146,000	142,687	4,200	3.0	8,300	4,200	100	0.1
DES MOINES, IOWA.....	326,900	323,700	313,562	13,000	4.1	18,000	9,200	4,200	1.3
Polk.....	296,200	294,400	286,130	10,100	3.5	16,200	8,600	2,400	0.8
Warren.....	30,300	29,300	27,432	2,900	10.6	1,800	700	1,800	6.6
DUBUQUE, IOWA.....	94,900	93,500	90,609	4,300	4.8	5,400	2,700	1,700	1.9
Dubuque.....	94,900	93,500	90,609	4,300	4.8	5,400	2,700	1,700	1.9
OMAHA, NEB.-IOWA (Iowa portion).....	90,600	89,900	86,991	3,600	4.2	5,100	2,600	1,200	1.4
Pottawattamie.....	90,600	89,900	86,991	3,600	4.2	5,100	2,600	1,200	1.4
SIOUX CITY, IOWA-NEB. (Iowa portion)...	106,100	105,400	103,052	3,100	3.0	5,700	3,700	1,000	1.0
Woodbury.....	106,100	105,400	103,052	3,100	3.0	5,700	3,700	1,000	1.0
WATERLOO-CEDAR FALLS, IOWA.....	134,500	134,900	132,916	1,600	1.2	6,800	3,600	-1,600	-1.2
Black Hawk.....	134,500	134,900	132,916	1,600	1.2	6,800	3,600	-1,600	-1.2

<sup>1</sup>Births and deaths are based on reported vital statistics from April 1, 1970 to December 31, 1972, with extrapolations to June 30, 1973. Net migration is the difference between net change and natural increase.

## APPENDIX

## ESTIMATES PUBLISHED IN SERIES P-26 REPORTS SINCE 1970 CENSUS

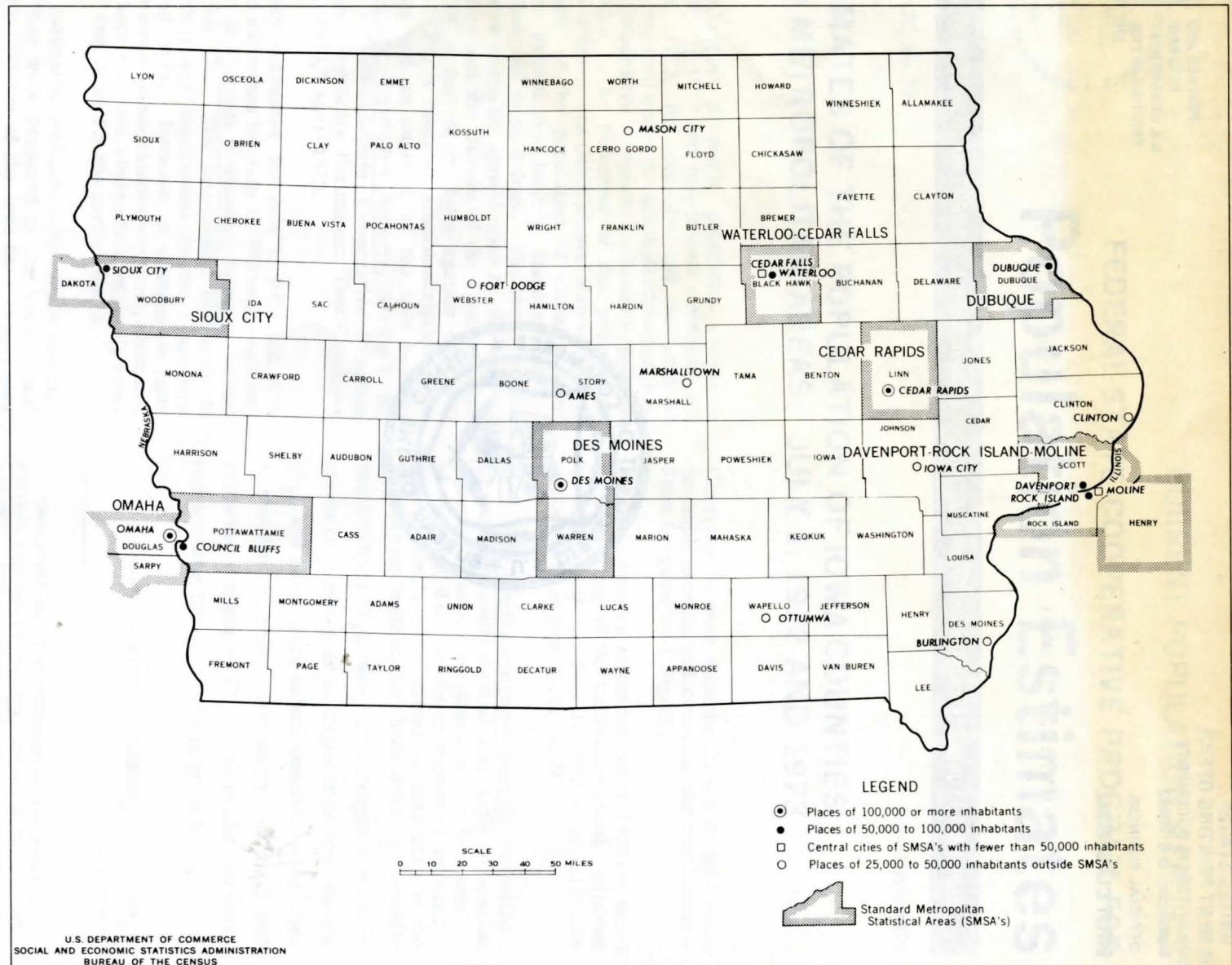
State	Report No.		State	Report No.		State	Report No.		State	Report No.	
	1972 and provi- sional 1973	1971 and provi- sional 1972		1972 and provi- sional 1973	1971 and provi- sional 1972		1972 and provi- sional 1973	1971 and provi- sional 1972		1972 and provi- sional 1973	1971 and provi- sional 1972
Ala.....		48	Ind....		14	Nebr....	58	25	R.I.....	65	22
Alaska...		(X)	Iowa....	72	31	Nev.....	67	29	S.C.....	71	34
Ariz.....	50	*11	Kans....	64	43	N.H.....	52	18	S.Dak...	61	*12
Ark.....	70	33	Ky.....		35	N.J.....		20	Tenn....		47
Calif.....		*41	La.....	54	*16	N.Mex...		(X)	Tex.....		(X)
Colo.....	62	17	Maine..	59	28	N.Y.....		(X)	Utah....	55	10
Conn.....		(X)	Md.....		(X)						
Del.....	57	15	Mass....		42	N.C.....	68	44	Vt.....	49	*13
Fla.....		46	Mich....	69	32	N.Dak...	60	(X)	Va.....		36
Ga.....		37	Minn....		38	Ohio....		*40	Wash....	66	(X)
Hawaii...	56	23	Miss....		(X)	Okla....	63	24	W.Va....		30
Idaho.....	51	9	Mo.....		45	Oreg.....		(X)	Wis.....		26
Ill.....		27	Mont...	53	19	Pa.....		*39	Wyo.....		(X)

\* First year only.

X No estimates published for this State.



# COUNTIES, METROPOLITAN AREAS, AND SELECTED PLACES: IOWA



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